

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



Image
B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(219.006-US)

In re Application of: **Ushiki et al.**

Serial No: **10/083,440**

Filed: **February 26, 2002**

Title: **Surface Contamination Analyzer for Semiconductor
Wafer, Method Used therein and Process for
Fabricating Semiconductor Device**

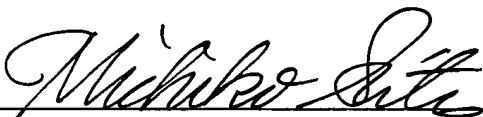
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate of Mailing under 37 CFR 1.8

I hereby certify that the attached Power of Attorney by Assignee, Revocation of All Prior Powers of Attorney and Certificate Under 37 CFR 3.73 (2 pages, including a copy of assignment recordation documents (5 pages) attached thereto) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

on March 1, 2004.



Signature



Print Name of Person Signing Certificate



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 219.006-US)

In the Application of: **Ushiki et al.**

Serial No: **10/083,440**

Filed: **February 26, 2002**

Title: **SURFACE CONTAMINATION ANALYZER FOR
SEMICONDUCTOR WAFER, METHOD USED THEREIN AND
PROCESS FOR FABRICATING SEMICONDUCTOR DEVICE**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**POWER OF ATTORNEY BY ASSIGNEE,
REVOCATION OF ALL PRIOR POWERS OF ATTORNEY
AND CERTIFICATE UNDER 37 CFR 3.73**

Sir:

The undersigned, being empowered to sign this Power of Attorney by Assignee, Revocation of All Previous Powers of Attorney and Certificate under 37 CFR 3.73 on behalf of Fab Solutions, Inc., the assignee of the entire right, title and interest in the above-referenced application, hereby revokes all prior powers of attorney and hereby appoints Neil A. Steinberg, Reg. No. 34,735, with full power of substitution and revocation to prosecute this application and to transact all business before the United States Patent and Trademark Office (hereinafter "the USPTO") in the above-referenced application.

Fab Solutions, Inc. certifies that it is the assignee of the entire right, title and interest in the above-referenced patent application by virtue of: (1) the assignments from the inventors, Takeo Ushiki, Keizo Yamada, Yousuke Itagaki, and Tohru Tsujide, to NEC Corporation; and (2) the assignment from NEC Corporation to Fab Solutions, Inc.

The inventors executed their assignments on February 13, 2002. On February 26,



2002, the assignments were recorded on Reel 012659, Frame 0895.

NEC Corporation executed its assignment on October 1, 2002. On January 2, 2003, the assignment was recorded on Reel 013628, Frame 0427.

A copy of the aforementioned assignments and recordation documentation are attached hereto.

The undersigned has reviewed all of the documents in the chain of title of the above-referenced application and, to the best of the undersigned's knowledge and belief, title is in Fab Solutions, Inc., the assignee identified above.

Please direct all correspondence in the above-referenced patent application to:

Neil A. Steinberg
2665 Marine Way, Suite 1150
Mountain View, California 94043
Tel: 650-968-8079
Fax: 650-968-8102

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so make are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon.

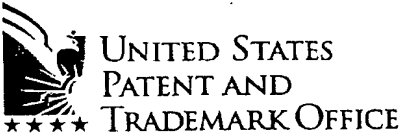
Date: 2/25/2004



Kuniaki Togasaki
President & Chief Executive Officer
Fab Solutions, Inc.

2001-58075

AUG. - 1. 2003



MAY 06, 2003

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

KATTEN MUCHIN ZAVIS ROSENMAN
IP DEPARTMENT 15TH FL.
575 MADISON AVENUE
NEW YORK, NY 10022-2585



102330991A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/02/2003

REEL/FRAME: 013628/0427
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
NEC CORPORATION

DOC DATE: 10/01/2002

ASSIGNEE:
FAB SOLUTIONS, INC.
NISSEI SHINMIZONOKUCHI BLDG. 5F, 3-
5-7 HISAMOTO
TAKATSU-KU, KAWASAKI
KANAGAWA 213-0011, JAPAN

SERIAL NUMBER: 10083440
PATENT NUMBER:

FILING DATE: 02/26/2002
ISSUE DATE:

SAUNDRA BALLENGER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

PATENT APPLICATION ASSIGNMENT

WHEREAS, NEC Corporation, a Japanese corporation, having its principal place of business at 7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001, Japan is the owner and assignee of record of the patent application listed below;

WHEREAS, Fab Solutions, Inc., a Japanese corporation, having its principal place of business at Nissei Shinmizonokuchi Bldg. 5F, 3-5-7 Hisamoto, Takatsu-ku, Kawasaki, Kanagawa 213-0011, Japan is desirous of obtaining the entire right, title, and interest in the patent application listed below and invention disclosed therein, and to any United States patents to be obtained therefor;

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged, NEC Corporation, hereby sells, assigns and transfers to Fab Solutions, Inc., its successors and assigns, the Assignor's entire right, title and interest including rights to recover for past infringement in the below listed patent application, the invention disclosed therein, and to any and all patents for the United States of America, which may be granted thereon, and requests the Director- U.S. Patent and Trademark Office to issue any Letters Patents granted upon the invention set forth in said Application to the Assignee herein, its successors and assigns; and Assignor will execute without further consideration all papers deemed necessary by the Assignee in connection with said United States patent application when called upon to do so by the Assignee.

<u>Serial No.</u>	<u>Filing Date</u> (Year.Month.Day)
-------------------	--

10/083440 2002.02.26

IN WITNESS WHEREOF, NEC Corporation has executed this Assignment by proper persons duly authorized.

NEC Corporation

Attest:

Masaaki Maruyama

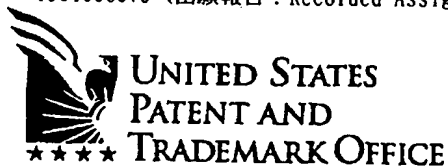
Masao Maruyama

Chief Manager

Planning Division

Intellectual Asset Operations Unit

Date: October 1, 2002



MAY 07, 2002

ROSENMAN & COLIN, LLP
MICHAEL I. MARKOWITZ
575 MADISON AVENUE
15TH FLOOR IP DEPARTMENT
NEW YORK, NEW YORK 10022-2585

PTAS

Commissioner for Trademarks
Arlington, VA 22202-3513
www.uspto.gov



102016117A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/26/2002

REEL/FRAME: 012659/0895
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

USHIKI, TAKEO

DOC DATE: 02/13/2002

ASSIGNOR:

YAMADA, KEIZO

DOC DATE: 02/13/2002

ASSIGNOR:

ITAGAKI, YOHISUKE

DOC DATE: 02/13/2002

ASSIGNOR:

TSUJIDE, TOHRU

DOC DATE: 02/13/2002

ASSIGNEE:

NEC CORPORATION
7-1, SHIBA 5-CHOME, MINATO-KU
TOKYO, JAPAN

SERIAL NUMBER: 10083440
PATENT NUMBER:

FILING DATE: 02/26/2002
ISSUE DATE:

UNITED STATES

ASSIGNMENT

Docket No. NEKW 19 480

WHEREAS, the below named inventor, ASSIGNOR, has made a certain new and useful invention in:
SURFACE CONTAMINATION ANALYZER FOR SEMICONDUCTOR WAFERS, METHOD USED THEREIN
AND PROCESS FOR FABRICATING SEMICONDUCTOR DEVICE
 for which

(check one) ☒ an application is being filed concurrently herewith,

☐ an application for a Patent of the United States was filed on _____
 and given Application Serial No. _____

and WHEREAS, NEC Corporation

having a place of business at 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said ASSIGNOR, has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR covenants and agrees that he has full right to convey the entire interest herein assigned, and has not executed, and will not execute, any agreement in conflict herewith.

AND ASSIGNOR further covenants and agrees that he will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

Full name of sole or first inventor TAKEO USHIKI

Inventor's signature Takeo Ushiki 


Date February 13, 2002

Residence Tokyo, Japan

Citizenship Japan

Post Office Address c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

Full name of second joint inventor, if any KEIZO YAMADA

Second Inventor's signature Keizo Yamada 

Date February 13, 2002

Residence Tokyo, Japan

Citizenship Japan

Post Office Address c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

UNITED STATES

Docket No. _____

ADDITIONAL INVENTORS FOR DECLARATION/ASSIGNMENT

Full name of additional inventor YOSUKE ITAGAKI
 Third inventor's signature Yosuke Itagaki Date February 13, 2002
 Residence Tokyo, Japan Citizenship Japan
 Post Office Address c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

Full name of additional inventor TOHRU TSUJIDE
 Fourth inventor's signature Tohru Tsujide Date February 13, 2002
 Residence Tokyo, Japan Citizenship Japan
 Post Office Address c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

Full name of additional inventor _____
 Fifth inventor's signature _____ Date _____
 Residence _____ Citizenship _____
 Post Office Address _____

Full name of additional inventor _____
 Sixth inventor's signature _____ Date _____
 Residence _____ Citizenship _____
 Post Office Address _____

Full name of additional inventor _____
 Seventh inventor's signature _____ Date _____
 Residence _____ Citizenship _____
 Post Office Address _____

Full name of additional inventor _____
 Eighth inventor's signature _____ Date _____
 Residence _____ Citizenship _____
 Post Office Address _____

Full name of additional inventor _____
 Ninth inventor's signature _____ Date _____
 Residence _____ Citizenship _____
 Post Office Address _____

Full name of additional inventor _____
 Tenth inventor's signature _____ Date _____
 Residence _____ Citizenship _____
 Post Office Address _____

Witness: Hiroshi Ueki

Witness: Atsuo Muro